

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2002-209630
(43)Date of publication of application : 30.07.2002

(51)Int.Cl. A45D 34/04
B65D 51/32

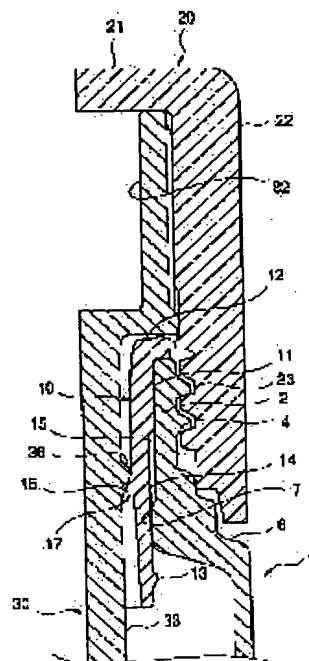
(21)Application number : 2001-007262 (71)Applicant : KAMAYA KAGAKU KOGYO CO LTD
(22)Date of filing : 16.01.2001 (72)Inventor : TAWARA TOMIO
ASAKAWA TETSUYA

(54) VESSEL WITH APPLYING TOOL

(57)Abstract:

PROBLEM TO BE SOLVED: To easily incorporate a pull-out plug into a bottle body neck part, and to improve slidableness of a shaft part.

SOLUTION: This vessel has a bottle body 1 having a neck part 2, a pull-out plug 10 installed in the neck part 2 having an annular pull-out part 16, a cover body 20 fitted around the neck part 2, and a bar-shaped applying tool 30 suspended from the inside of the cover body 20, and housed in the bottle body 1 by penetrating through a pull-out hole 17. A lower end part 7 of an inner wall of the neck part 2 is projected in an annular shape, and is formed in a diameter smaller than an inner diameter of an upper part 8 of the neck part 2. An outer diameter of an upper part 11 of the pull-out plug 10 is formed in the almost same diameter so as to be brought into pressure contact with the inner diameter of the upper part 8 of the neck part 2. An outer diameter of a lower part 14 of the pull-out plug 10 is formed in a diameter smaller than the outer diameter of the upper part 11 of the pull-out plug 10, and is formed in the almost same diameter as an inner diameter of a lower end part 7 of the neck part 2 so that a void 15 is formed between the inner wall of the neck part 2 and an outer wall of the pull-out plug 10.



LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

(19) 日本国特許庁 (J P)

(12) 公開特許公報 (A)

(11) 特許出願公開番号

特開2002-209630

(P2002-209630A)

(43) 公開日 平成14年7月30日 (2002.7.30)

(51) Int.Cl. ⁷	識別記号	F I	テ-マ-コ-ト* (参考)
A 4 5 D 34/04	5 1 5	A 4 5 D 34/04	5 1 5 C 3 E 0 8 4
B 6 5 D 51/32		B 6 5 D 51/32	A

審査請求 未請求 請求項の数4 O L (全 4 頁)

(21) 出願番号 特願2001-7262(P2001-7262)

(22) 出願日 平成13年1月16日 (2001.1.16)

(71) 出願人 000156341

釜屋化学工業株式会社

東京都台東区浅草橋5丁目23番6号

(72) 発明者 田原 登英雄

東京都台東区浅草橋5丁目23番6号 釜屋
化学工業株式会社内

(72) 発明者 浅河 哲也

茨城県猿島郡総和町丘里2丁目1番 釜屋
化学工業株式会社茨城事業所内

(74) 代理人 100098154

弁理士 橋本 克彦 (外1名)

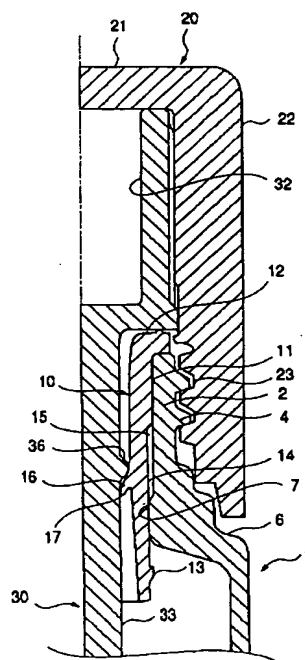
最終頁に続く

(54) 【発明の名称】 塗布具付き容器

(57) 【要約】

【課題】 扱き栓の瓶体頸部内への組み込みが容易にして軸部の摺動性のよいものにする。

【解決手段】 頸部2を有する瓶体1と、環状の扱き部16を有する前記頸部2内に装着される扱き栓10と、頸部2に外嵌する蓋体20と、蓋体20内から垂下し扱き孔10を貫通して瓶体1内に収納される棒状塗布具30と、を備え、頸部2の内壁の下端部7を環状に突出させて頸部2の上方部8の内径よりも小径とし、扱き栓10の上方部11の外径を頸部2の上方部8の内径と圧接可能にはほぼ同径とすると共に扱き栓10の下方部14の外径を扱き栓10の上方部11の外径よりも小径にして頸部2の下端部7の内径とはほぼ同径とすることにより頸部2の内壁と扱き栓10の外壁との間に空隙15を形成した。



【特許請求の範囲】

【請求項1】 頸部を有する瓶体と、前記頸部の上端に係合するフランジ部が形成され且つ抜き孔を形成する環状の抜き部を有する前記頸部内に装着される抜き栓と、前記頸部に外嵌する蓋体と、前記蓋体内から垂下する軸部の先端部に塗布部を有し前記抜き孔を貫通して前記瓶体内に収納される棒状塗布具と、を備えて成る塗布具付き容器において、前記頸部の内壁の下端部を環状に突出させて頸部の上方部の内径よりも小径とし、前記抜き栓の上方部の外径を前記頸部の上方部の内径と圧接可能にほぼ同径とすると共に前記抜き栓の下方部の外径を前記抜き栓の上方部の外径よりも小径にして前記頸部の下端部の内径とほぼ同径とすることにより前記頸部の上方部の内壁と前記抜き栓の下方部の外壁との間に空隙を形成したことを特徴とする塗布具付き容器。

【請求項2】 前記抜き部の上方近傍に位置する軸部の外周に前記抜き栓の内壁とほぼ同径の環状突起を突設したことを特徴とする請求項1記載の塗布具付き容器。

【請求項3】 前記抜き部を前記空隙の内側となる前記抜き栓の内壁に形成したことを特徴する請求項1又は請求項2記載の塗布具付き容器。

【請求項4】 前記抜き栓が軟質ポリエチレン製であることを特徴とする請求項1、2又は請求項3記載の塗布具付き容器。

【発明の詳細な説明】

【0001】

【発明の属する技術分野】本発明は、瓶体内にマスカラやアイライナーなどような高粘度の液状内容物を収納すると共に、蓋体に設けた棒状塗布具に付着した液状内容物を瓶頸部内の抜き栓で抜き落として適量の内容物を取り出して使用する塗布具付き容器に関する。

【0002】

【従来技術】従来、この種の容器は、瓶体から棒状塗布具の挿抜を繰り返す度に、抜き栓の内面に内容物が付着し、この付着内容物が瓶体から拔出する棒状塗布具の軸部に付着してしまう不具合がある。これを解決するものとして、実公昭59-27206号に提示された塗布具付き容器が知られている。

【0003】この従来の塗布具付き容器は、図4に示すように、瓶体50の頸部51に柔軟なゴム製の抜き栓52が設けられており、この抜き栓52の上端には落下防止用の上部フランジ部53が設けられ、下端には抜け止め防止用の下部フランジ部54とともに内方へ突出し中央に抜き孔55を有する抜き部56が設けられ、抜き栓52の周囲に空隙57が設けられた構成となっている。

【0004】一方、前記抜き孔52に摺接する棒状塗布具60の軸部61には前記抜き栓52の内面と摺接する太部62が設けられている。従って、閉蓋するために棒状塗布具60の塗布部63を瓶体50内に挿入すると、太部62が抜き栓52を外方に膨出させながら抜き

栓52内面の付着内容物を掻き落として瓶体50内に押し込み、瓶体50から棒状塗布具60を拔出する際、その軸部61外周に内容物が付着するのを防止している。

【0005】

【発明が解決しようとする課題】しかしながら、上記従来の塗布具付き容器は、抜き栓52が柔軟なゴム製であり且つ抜け止め用の下部フランジ部54の外径が瓶体50の頸部51の開口部内径よりもはるかに大径であることから、瓶体50の頸部51内に抜き栓52を挿入する組付け作業時の摩擦抵抗が大きく、抜き栓52の圧入工程で抜き栓52が傾いたりして組み付け作業が極めて困難であった。

【0006】また、瓶体50の頸部51に挿入された抜き栓52が柔軟なゴム製であることから、閉蓋時における太部62による押し込み力で落下防止用の上部フランジ部53が歪んで抜き栓52が瓶体50内に落ち込んでしまうという問題もある。

【0007】本発明は、上記の問題に鑑みてなされたもので、抜き栓の瓶体の頸部内への組み込みが容易にして軸部の摺動性のよい塗布具付き容器にすることにある。

【0008】

【課題を解決するための手段】本発明は、頸部を有する瓶体と、前記頸部の上端に係合するフランジ部が形成され且つ抜き孔を形成する環状の抜き部を有する前記頸部内に装着される抜き栓と、前記頸部に外嵌する蓋体と、前記蓋体内から垂下する軸部の先端部に塗布部を有し前記抜き孔を貫通して前記瓶体内に収納される棒状塗布具と、を備えて成る塗布具付き容器において、前記頸部の内壁の下端部を環状に突出させて頸部の上方部の内径よりも小径とし、前記抜き栓の上方部の外径を前記頸部の上方部の内径と圧接可能にほぼ同径とすると共に前記抜き栓の下方部の外径を前記抜き栓の上方部の外径よりも小径にして前記頸部の下端部の内径とほぼ同径とすることにより前記頸部の上方部の内壁と前記抜き栓の下方部の外壁との間に空隙を形成した。

【0009】上記の構成としたことにより、抜き栓を瓶体頸部内に装着するとき、抜き栓の下方部を頸部内の上方部に深く投入し、抜き栓の姿勢が安定した状態のもとで抜き栓の圧入を行うことができる。従って、抜き栓を円滑に圧入することで、装着された抜き栓の外壁と頸部内壁との間に空隙を形成することができる。

【0010】また、前記抜き部の上方近傍に位置する軸部の外周に前記抜き栓の内壁とほぼ同径の環状突起を突設したことにより、下降移動する環状突起により抜き栓内の抜き部よりも上方の付着内容物を掻き落として瓶体内に押し戻し、抜き栓内を払拭して付着内容物が軸部に付着することを防止する。

【0011】また、前記抜き部を前記空隙の内側となる抜き栓の内壁に形成したことにより、抜き部近傍の内壁は可撓性を有しており、棒状塗布具の挿抜操作に伴う前

記環状突起の抜き栓内での移動を円滑に行うことができる。

【0012】また、抜き栓を軟質ポリエチレン製とすることにより、薄肉に形成することが可能となり、頸部が小径な小形の瓶体に好適となる。また、抜き栓を瓶体頸部に装着するときの摩擦抵抗がゴム製のものよりも小さく、抜き栓の組み付け作業が更に円滑になる。

【0013】

【発明の実施の形態】以下、本発明の好適な実施の形態を添付図面を参照しながら詳細に説明する。

【0014】図1乃至図3は、本発明の塗布具付き容器の実施の形態を示しており、頸部2を有する瓶体1と、前記頸部2内に装着される抜き栓10と、前記頸部2に外嵌する蓋体20と、前記蓋体20内から垂下する棒状塗布具31と、を備えて構成されている。

【0015】瓶体1は、比較的硬質の合成樹脂を用いて中空成形方法で成形されたものであり、有底の胴部3の上端に外周に雄ネジ4を刻設した頸部5が肩部6を介して立設されている。

【0016】図2に拡大して示すように、頸部2の内壁20 下端部7は成形時のエアブロー用マンドレルの形状を利用して環状に内側へ突出形成されていて、上方部8の内径よりも小径とされている。

【0017】抜き栓10は、軟質のポリエチレン樹脂を用いて射出成形方法により略筒状に成形されたものであり、その上端には、瓶体1の頸部2の上端面に係合して瓶体1内への落ち込みを防止する為の外向きのフランジ部12が形成されていると共に、その下端部外周には、瓶体1からの抜け止め用の環状突起13が周設されている。尚、環状突起13は、頸部2の上方部8の内径より 30 も小径とするのが好ましい。

【0018】抜き栓10の上方部11の外径は、瓶体1における頸部2の上方部8の内径とほぼ同径とされていると共に、抜き栓10の下方部14の外径は、抜き栓10の上方部11の外径よりも小径にして瓶体1における頸部2の下端部7の内径とほぼ同径に設定されている。

【0019】上記のような設定としたことにより、抜き栓10を瓶体1の頸部2内に装着するとき、抜き栓10の下方部14を頸部2内の上方部8に深く安定した状態に投入することが可能であり、次の抜き栓10の圧入作業が円滑に行えて確実に挿入される。尚、抜き栓10をゴム材で形成しても前記の効果を得ることができる。

【0020】瓶体1の頸部2に抜き栓10が装着されると、頸部2の上方部8の内壁と抜き栓10の下方部14の外壁との間に空隙15が形成される。

【0021】また、空隙15の内側となる抜き栓10の内壁には、中心部に棒状塗布具31が挿通する抜き孔17を形成するやや薄肉にして斜め下向きの環状の抜き部16が形成されている。

【0022】蓋体20は、頂壁21の外周縁から周壁2 50

2を垂下して成るもので、その開口部の内壁には、瓶体1の頸部2の雄ネジ4と螺合する雌ネジ23が刻設されている。そして、蓋体20内から棒状塗布具30が垂下している。

【0023】棒状塗布具30は、蓋体20内の奥部に圧入される係止部32と、係止部32の下面中央に垂設された軸部33と、軸部33の先端に挿入された取付け棒34に形成された吸水性の塗布体部35とから成り、閉蓋状態にあるときは、軸部33が抜き孔17を貫通して瓶体1内に収納されている。また、抜き部16の上方近傍に位置する軸部33の外周には、抜き栓10の内壁とほぼ同径の環状突起36が突設されている。

【0024】尚、本実施の形態では、棒状塗布具30を蓋体20と別体に形成して蓋体20に組み付けているが、蓋体と一体に形成しても良い。

【0025】本実施の形態の塗布具付き容器は、上述した部材で構成されており、抜き栓10の材質を軟質のポリエチレンにしたことから抜き栓10の肉厚を薄肉とすることが可能となり、頸部2が小径の小形の容器に好適である。

【0026】また、材質が軟質のポリエチレンであることから、挿入作業時の摩擦抵抗が従来のゴム栓に比較して小さく、且つ挿入作業時には抜き栓10の下方部14を頸部5内の上方部8に深く投入し抜き栓10の姿勢を安定させて圧入作業が行えるので、抜き栓10の瓶体1の頸部2内への組み込みが極めて円滑に行え、圧入された抜き栓10の外壁と頸部2の内壁との間に空隙15を容易に形成することができる。

【0027】棒状塗布具30を引き抜くと、軸部33の外周面と塗布体部35は抜き部16で弾性的に扱われて軸部33の付着内容物が拭きされ、塗布体部35に含浸した適量の内容物が取り出される。抜き部16の背面には空隙15が位置して可撓性があることから軸部33および環状突起36の撓動は良好に行われる。

【0028】棒状塗布具30を瓶体1内に戻すとき、環状突起36が抜き栓10の内壁に撓動し、抜き部16よりも上方の付着内容物を掻き落として瓶体1内に押し戻す。環状突起36と抜き栓10との嵌合寸法がばらついて嵌合が浅くなっても、蓋体20の閉め終わり付近では空隙15によって緩和されるので、使用者が蓋体20を閉めきれない状態で放置されてしまう事故を回避することができる。

【0029】

【発明の効果】本発明は、以上説明したような形態で実施され、以下に記載されるような効果を奏する。

【0030】本発明の塗布具付き容器によれば、瓶体頸部の内壁の下端部を環状に突出させて該頸部の上方部の内径よりも小径とし、抜き栓の上方部の外径を頸部の上方部の内径と同径とすると共に抜き栓の下方部の外径を抜き栓の上方部の外径よりも小径にして頸部の下端部の

内径と同径とすることにより頸部の上方部の内壁と抜き栓の下方部の外壁との間に空隙を形成する構成としたので、抜き栓と瓶体頸部との間に空隙を形成する容器における抜き栓の組み付け工程において、抜き栓の下方部を頸部内の上方部に深く安定した状態に投入して次の抜き栓の圧入作業が円滑に行えるので、抜き栓の装着作業が容易となり、生産性を向上することができる。

【0031】また、この容器に使用される抜き栓の材質を軟質のポリエチレンとしたことにより、挿栓作業時の摩擦抵抗が従来のゴム栓に比較して小さくなって更に装着作業性が良好となると共に、抜き栓の肉厚を薄肉とすることができるので、頸部が小径なマスカラやアイライナー、マニキュア用容器として好適な小形容器とすることができる。

*

*【図面の簡単な説明】

【図1】本発明の塗布具付き容器の実施の形態を示す断面図。

【図2】図1の容器の要部を示す半断面図。

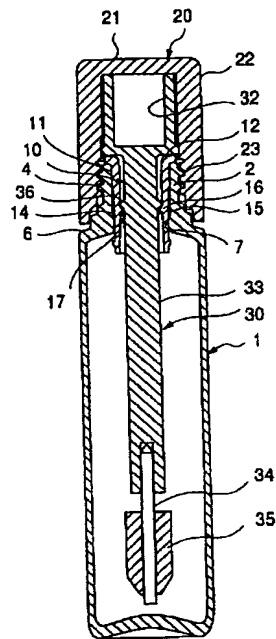
【図3】図1の容器における瓶体と抜き栓の一部を截切して示す正面図。

【図4】従来例を示す断面図。

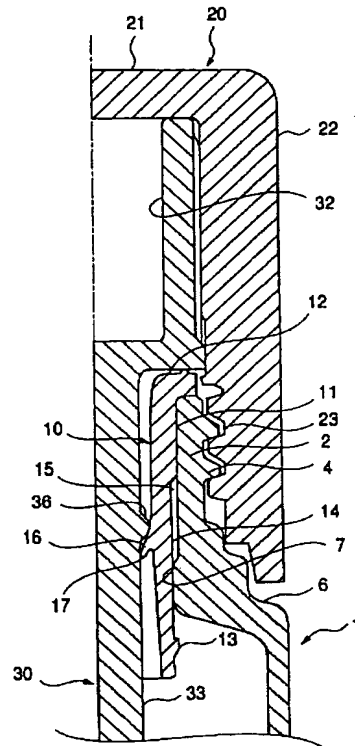
【符号の説明】

1 瓶体、2 頸部、7 下端部、8 上方部、10 抜き栓、11 上方部、12 フランジ部、14 下方部、15 空隙、16 抜き部、17 抜き孔、20 蓋体、30 棒状塗布具、33 軸部、35 塗布体部、36 環状突起、

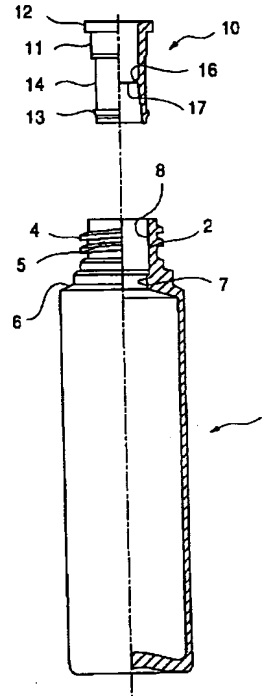
【図1】



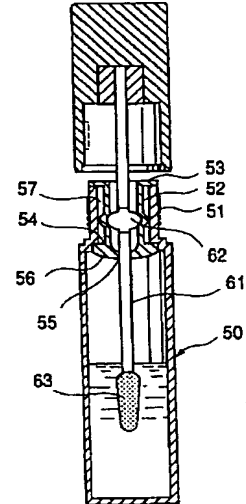
【図2】



【図3】



【図4】



フロントページの続き

Fターム(参考) 3E084 AA04 AA12 AB01 BA03 CA01
DA01 DB12 EA04 EC03 FA09
FB01 GA01 GA08 GB01 GB12
GB14 JA01 KB01 LG01

* NOTICES *

JPO and NCIP1 are not responsible for any damages caused by the use of this translation.

- 1.This document has been translated by computer. So the translation may not reflect the original precisely.
- 2.*** shows the word which can not be translated.
- 3.In the drawings, any words are not translated.

CLAIMS

[Claim(s)]

[Claim 1] It is equipped in said cervix which annular [which the bottle object which has a cervix, and the flange which engages with said cervix upper limit are formed, and draws through and forms a hole] draws through, and has the section, and draws through. A plug, In the container with the applicator which has a spreading soma in the point of the shank which hangs out of the lid attached outside said cervix, and said lid, equips it with said cylindrical applicator which draws through, penetrates a hole and is contained in said bottle object, and grows into it Make the lower limit section of said cervix wall project annularly, and it considers as a minor diameter rather than the bore of the cervix upper part section. If the bore of said cervix upper part section and the pressure welding of the outer diameter of said upper part section which it draws through and is a plug are mostly made possible into the diameter of said both -- said container with the applicator which draws through and is characterized for the outer diameter of the lower part section of a plug by the wall of said cervix upper part section, and said thing [having drawn through and having formed the opening between the outer walls of the lower part section of a plug] by [said] drawing through, making it a minor diameter rather than the outer diameter of the upper part section of a plug, and considering as the diameter of said mostly with the bore of said cervix lower limit section.

[Claim 2] The container with the applicator according to claim 1 characterized by said thing [having drawn through and having protruded the annular projection of the diameter of said mostly with the wall of a plug] at said periphery of a shank which draws through and is located near the upper part of the section.

[Claim 3] Said container with the applicator according to claim 1 or 2 which carries out the description of said thing [having drawn through and having formed in the wall of a plug] which draw through and serves as the inside of said opening in the section.

[Claim 4] Claims 1 and 2 which draw through and are characterized by said thing [that a plug is a product made from elasticity polyethylene], or a container with the applicator according to claim 3.

[Translation done.]

* NOTICES *

JPO and NCIP are not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. **** shows the word which can not be translated.
3. In the drawings, any words are not translated.

DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[Field of the Invention] The liquefied contents adhering to the cylindrical applicator prepared in the lid are drawn through in a bottle cervix, and this invention fails to draw them through with a plug, and relates to the container with the applicator which takes out and uses the contents of optimum dose while it contains the liquefied contents of hyperviscosity [like], such as mascara and an eyeliner, in a bottle object.

[0002]

[Description of the Prior Art] Conventionally, this kind of container has the fault which it draws through whenever it repeats the insert and remove of the cylindrical applicator from a bottle object, and contents adhere to the inside of a plug, and adheres to the shank of the cylindrical applicator in which these adhesion contents carry out an extraction from a bottle object. As what solves this, the container with the applicator which JP, 59-27206, Y was shown is known.

[0003] the container with the applicator of this former is shown in drawing 4 — as — the cervix of a bottle object 50 — the product made of rubber flexible to 51 draws through, the plug 52 is formed, and it has this composition of drawing through, and the upper flange section 53 for safety catches in the upper limit of a plug 52 being formed, escaping in a lower limit, drawing through in the center of a projection to the inner direction in the lower flange section 54 for stop prevention, and having a hole 55 and that drew through, and the section 56 was formed, drew through and the opening 57 be established in the perimeter of a plug 52.

[0004] On the other hand, said thick part 62 which draws through and ****s to the inside of a plug 52 is formed in the shank 61 of said cylindrical applicator 60 which draws through and ****s to a hole 52. Therefore, if the spreading soma 63 of the cylindrical applicator 60 is inserted into a bottle object 50 in order to lid, in case a thick part 62 draws through, and will draw through, bulging a plug 52 in the method of outside, it will fail to scratch the adhesion contents of plug 52 inside, it will push in in a bottle object 50 and the extraction of the cylindrical applicator 60 will be carried out from a bottle object 50, it has prevented that contents adhere to the shank 61 periphery.

[0005]

[Problem(s) to be Solved by the Invention] however, the above-mentioned conventional container with the applicator — drawing through — the product made of rubber with a flexible plug 52 — it is — and — escaping — the outer diameter of the lower flange section 54 for stops — the cervix of a bottle object 50 — since it was a major diameter farther than the diameter of opening circles of 51, the frictional resistance at the time of the attachment activity which draws through in cervix 51 of a bottle object 50, and inserts a plug 52 was large, it drew through, and drew through at the press fit process of a plug 52, the plug 52 inclined, and the attachment activity was very difficult.

[0006] moreover, the cervix of a bottle object 50 — by drawing through, since [whose plug 52 is a flexible product made of rubber] it was inserted in 51, by the pushing force by the thick part 62 at the time of lidding, the upper flange section 53 for safety catches is distorted, it draws through, and there is also a problem that a plug 52 will fall in a bottle object 50.

[0007] This invention is for it to have been made in view of the above-mentioned problem, draw through, and for the inclusion into the cervix of the bottle object of a plug make it easy, and make it the good container with the applicator of the sliding nature of a shank.

[0008]

[Means for Solving the Problem] It is equipped in said cervix which annular [which the bottle object which has a cervix, and the flange which engages with said cervix upper limit are formed, and draws this invention through, and forms a hole] draws through, and has the section, and draws through. A plug, In the container with the applicator which has a spreading soma in the point of the shank which hangs out of the lid attached outside said cervix, and said lid, equips it with said cylindrical applicator which draws through, penetrates a hole and is contained in said bottle object, and grows into it Make the lower limit section of said cervix wall project annularly, and it considers as a minor diameter rather than the bore of the cervix upper part section. If the bore of said cervix upper part section and the pressure welding of the outer diameter of said upper part section which it draws through and is a plug are mostly made possible into the diameter of said both — said — drawing through — the outer diameter of the lower part section of a plug — said thing [drawing through, making it a minor diameter rather than the outer diameter of the upper part section of a plug, and considering as the diameter of said mostly with the bore of said cervix lower limit section] — the wall of said cervix upper part section — said — it drew through and the opening was formed between the outer walls of the lower part section of a plug.

[0009] When drawing through and equipping with a plug in a bottle object cervix by having considered as the above-mentioned configuration, it can draw through by the basis in the condition that drew through, supplied the lower part section of a plug to the upper part section in a cervix deeply, drew it through, and the posture of a plug was stabilized, and a plug can be pressed fit. Therefore, by drawing through and pressing a plug fit smoothly, it was able to be equipped, and can draw through and an opening can be formed between the outer wall of a plug, and a cervix wall.

[0010] Moreover, it prevents that draw through on said periphery of a shank which draws through and is located near the upper part of the section by the annular projection which carries out downward migration by [said] having drawn through and having

protruded the annular projection of the diameter of said mostly with the wall of a plug, draw through in a plug, fail to scratch upper adhesion contents, put back in a bottle object, draw through rather than the section, wipe away the inside of a plug, and adhesion contents adhere to a shank.

[0011] Moreover, it can draw through, and the section is drawn through by [said / used as the inside of said opening] having drawn through and having formed in the wall of a plug, it has flexibility and it can perform [said annular projection accompanying insert-and-remove actuation of the cylindrical applicator can draw the wall near the section through, and] migration within a plug smoothly.

[0012] Moreover, by drawing through and making a plug into the product made from elasticity polyethylene, it becomes possible to form in thin meat, and a cervix becomes suitable for a small minor diameter bottle object. Moreover, the frictional resistance when drawing through and equipping with a plug in a bottle object cervix is smaller than the thing made of rubber, it draws through, and the attachment activity of a plug becomes still smoother.

[0013] [Embodiment of the Invention] Hereafter, the gestalt of suitable operation of this invention is explained to a detail, referring to an accompanying drawing.

[0014] Drawing 1 thru/or drawing 3 show the gestalt of operation of the container with the applicator of this invention, by drawing through, is equipped with the cylindrical applicator 31 which hangs out of cervix the plug 10 and the lid 20 attached outside said cervix 2 with which it is equipped the bottle object 1 which has 2, and in said cervix 2, and said lid 20, and is constituted.

[0015] the cervix which the bottle object 1 was fabricated by the blow molding approach using comparatively hard synthetic resin, and engraved the male screw 4 on the upper limit of the drum section 3 of an owner bottom at the periphery — 5 is set up through the shoulder 6.

[0016] it expands to drawing 2 and is shown — as — a cervix — using the configuration of the mandrel for the Ayr blow at the time of shaping, the wall lower limit section 7 of 2 projects to the inside, is annularly, formed in it, and let it be a minor diameter rather than the bore of the upper part section 8.

[0017] it draws through and a plug 10 is fabricated approximately cylindrical by the injection-molding approach using elastic polyethylene resin — having — the upper limit — the cervix of a bottle object 1 — while the outward flange 12 for engaging with the upper limit side of 2 and preventing the depression into a bottle object 1 is formed, it escapes from a bottle object 1 on the lower limit section periphery, and the annular projection 13 for stops is attached around it. in addition, the annular projection 13 — a cervix — considering as a minor diameter is more desirable than the bore of the upper part section 8 of 2.

[0018] a cervix [in / it draws through and / in the outer diameter of the upper part section 11 of a plug 10 / a bottle object 1] — the cervix [in / both, it draws through, the outer diameter of the lower part section 14 of a plug 10 is drawn through, and it is made a minor diameter rather than the outer diameter of the upper part section 11 of a plug 10, and / a bottle object 1] mostly made into the diameter of said with the bore of the upper part section 8 of 2 — it is mostly set as the diameter of said with the bore of the lower limit section 7 of 2.

[0019] When drawing through and equipping with a plug 10 in cervix 2 of a bottle object 1 by having considered as the above setup, it can draw through, and ** which supplies the lower part section 14 of a plug 10 to the condition of having been deeply stabilized in the upper part section 8 in cervix 2 is possible, a degree draws through, the press fit activity of a plug 10 can be done smoothly, and it **** certainly. In addition, the aforementioned effectiveness can be acquired, even if it draws through and forms a plug 10 by rubber material.

[0020] the cervix of a bottle object 1 — if it draws through to 2 and is equipped with a plug 10 — a cervix — it draws through with the wall of the upper part section 8 of 2, and an opening 15 is formed between the outer walls of the lower part section 14 of a plug 10.

[0021] moreover, it becomes the inside of an opening 15 — it draws through and the cylindrical applicator 31 inserts in the wall of a plug 10 in a core — it draws through and a hole 17 is formed — it is made thin meat a little and slanting facing down is annular — it draws through and the section 16 is formed.

[0022] what a lid 20 hangs a peripheral wall 22 from the periphery edge of a top wall 21, and changes — it is — the wall of the opening — the cervix of a bottle object 1 — the male screw 4 of 2 and the female screw 23 to screw are engraved. And the cylindrical applicator 30 has hung from the inside of a lid 20.

[0023] When it consists of the stop section 32 pressed fit in the inner in a lid 20, the shank 33 installed in the center of an inferior surface of tongue of the stop section 32, and the spreading soma 35 of the absorptivity which was inserted at the tip of a shank 33 and which attached and was formed in the rod 34 and is in a lidding condition, a shank 33 draws the cylindrical applicator 30 through, it penetrates a hole 17, and is contained in the bottle object 1. Moreover, it draws through on the periphery of a shank 33 which draws through and is located near the upper part of the section 16, and the annular projection 36 of the diameter of said protrudes on it mostly with the wall of a plug 10.

[0024] In addition, although the cylindrical applicator 30 was formed in the lid 20 and another object and being attached to the lid 20 with the gestalt of this operation, you may form in a lid and one.

[0025] it is possible to draw through from the container with the applicator of the gestalt of this operation consisting of members mentioned above, having drawn through, and having used the quality of the material of a plug 10 as elastic polyethylene, and to use thickness of a plug 10 as thin meat — becoming — a cervix — 2 is suitable for the small container of a minor diameter.

[0026] Moreover, since the quality of the material is elastic polyethylene, the frictional resistance at the time of a **** activity is small as compared with the conventional rubber stopper. And since it draws through at the time of a **** activity, and the lower part section 14 of a plug 10 is deeply supplied to the upper part section 8 in cervix 5, and is drawn through, the posture of a plug 10 is stabilized and a press fit activity can be done It draws through, and the inclusion into cervix 2 of the bottle object 1 of a plug 10 could carry out very smoothly, was able to be pressed fit, and can draw through, and an opening 15 can be easily formed between the walls of cervix 2 as the outer wall of a plug 10.

[0027] If the cylindrical applicator 30 is drawn out, the peripheral face and the spreading soma 35 of a shank 33 will draw through, it will be elastically drawn through in the section 16, the adhesion contents of a shank 33 will be wiped away, and the contents of the optimum dose which sank into the spreading soma 35 will be taken out. Since it draws through, an opening 15 is

located in the tooth back of the section 16 and there is flexibility, sliding of a shank 33 and the annular projection 36 is performed good.

[0028] When returning the cylindrical applicator 30 in a bottle object 1, the annular projection 36 draws through, and it slides and draws through to the wall of a plug 10, and rather than the section 16, it is failed to scratch upper adhesion contents and puts back in a bottle object 1. Since a lid 20 shuts and it is eased by the opening 15 near the end even if it draws through with the annular projection 36, a fitting dimension with a plug 10 varies and fitting becomes astringent, a user can avoid the accident left in the condition that shutting a lid 20 cannot be finished.

[0029]

[Effect of the Invention] This invention is carried out with a gestalt which was explained above, and does so effectiveness which is indicated below.

[0030] According to the container with the applicator of this invention, make the lower limit section of the wall of a bottle object cervix project annularly, and it considers as a minor diameter rather than the bore of this cervix upper part section. Since it considered as the configuration which draws through with the wall of the cervix upper part section, and forms an opening between the outer walls of the lower part section of a plug by drawing through, drawing through while making the outer diameter of the upper part section of a plug into cervix bore and diameter of said of the upper part section, drawing the outer diameter of the lower part section of a plug through, making it a minor diameter rather than the outer diameter of the upper part section of a plug, and considering as cervix bore and diameter of said of the lower limit section Since it draws through in the attachment process of a plug, and the lower part section of a plug is supplied to the condition in the container which draws through and forms an opening between a plug and a bottle object cervix of having been deeply stabilized in the upper part section in a cervix, a degree draws [it draws through, and] through and the press fit activity of a plug can be done smoothly, it draws through, and wearing of a plug becomes easy and it can improve productivity.

[0031] Moreover, since it can draw through and thickness of a plug can be used as thin meat while the frictional resistance at the time of a **** activity becomes small as compared with the conventional rubber stopper and wearing workability becomes good further by [which drew through and used the quality of the material of a plug as elastic polyethylene] being used for this container, it can consider as minor diameter cervix mascara or a small container suitable as an eyeliner and a container for a manicure.

[Translation done.]

* NOTICES *

JPO and NCIP are not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. **** shows the word which can not be translated.
3. In the drawings, any words are not translated.

DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

[Drawing 1] The sectional view showing the gestalt of operation of the container with the applicator of this invention.

[Drawing 2] The half section Fig. showing the important section of the container of drawing 1 .

[Drawing 3] The front view in which drawing through with the bottle object in the container of drawing 1 , and ****(ing) and showing some plugs.

[Drawing 4] The sectional view showing the conventional example.

[Description of Notations]

1 Bottle Object, 2 Cervix, 7 Lower Limit Section, 8 Upper Part Section, 10 It Draws through and is Plug and 11. Upper Part Section, 12 Flange, 14 Lower Part Section, 15 Opening, 16 It Draws through and is Section and 17. It Draws through and is Hole and 20. Lid, 30 Cylindrical Applicator, 33 Shank, 35 Spreading Soma, 36 Annular Projection,

[Translation done.]

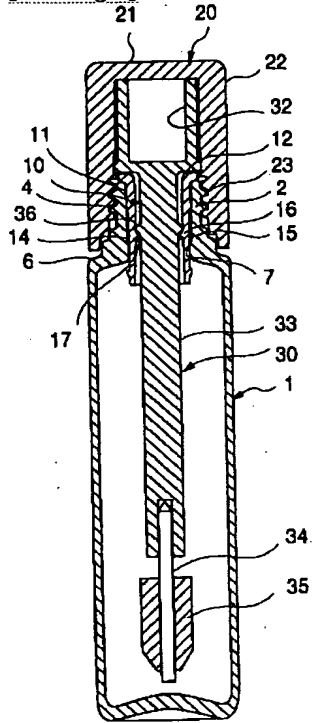
* NOTICES *

JPO and NCIP are not responsible for any damages caused by the use of this translation.

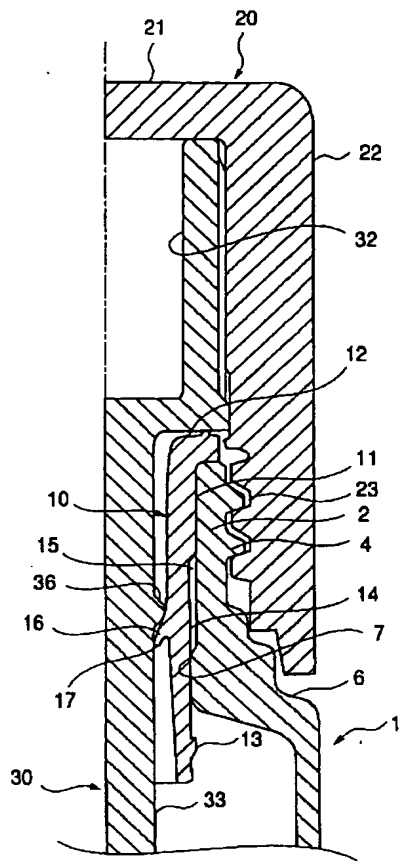
1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. **** shows the word which can not be translated.
3. In the drawings, any words are not translated.

DRAWINGS

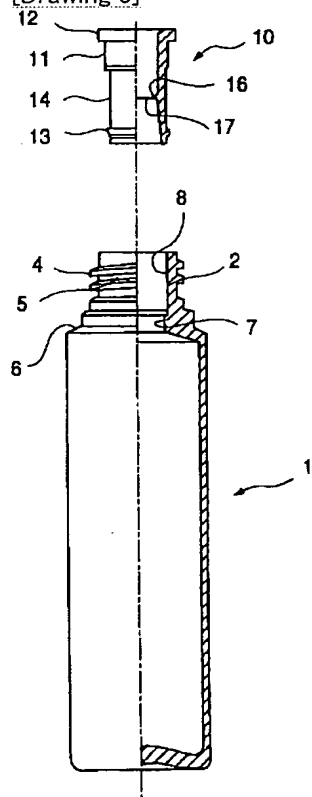
[Drawing 1]



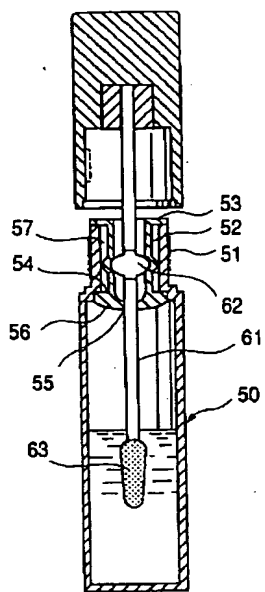
[Drawing 2]



[Drawing 3]



[Drawing 4]



[Translation done.]